EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4	(fix$3 or correct$3) malformed expressions	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2007/05/25 09:11
L2	0	(fix$3 or correct$3) BROKEN (LINK OR HYPERLINK) SELECT DTD	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2007/05/25 09:12
L3	0	(fix$3 or correct$3) BROKEN (LINK OR HYPERLINK) DTD	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2007/05/25 09:43
L4	2057	715/501.1,513.ccls.	USPAT	OR	ON	2007/05/25 09:23
L5	263	715/760.ccls.	USPAT	OR	ON	2007/05/25 09:23
L6	264	FIX$3 SAME (HTML MARKUP SGML XML) SAME (SYNTAX FORMAT$3)	USPAT	OR	ON	2007/05/25 09:23
L7	224	((DTD (DOCUMENT ADJ TYPE ADJ DEFINITION)) with edit$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/25 09:24
L8	5048	6 DTD	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/25 09:24
L9	20	6 DTD	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2007/05/25 09:24
L10	243	xml pars$3 dtd valid$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2007/05/25 09:26
L11	26	L10 edit$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2007/05/25 09:26

EAST Search History

L12	16	valid$6 dtd xsl (transform$3 or conver$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2007/05/25 09:27
L13	396	xml browser (well or form$3 or valid$6) pars$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2007/05/25 09:27
L14	27	L13 dtd	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2007/05/25 09:27
L15	9	correct$3 malform$3 (expression or statement or tag)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2007/05/25 09:30
L16	0	((EXTRACT$3 OR RETRIEV$3) LAYOUT ((DTD) OR (DOCUMENT ADJ TYPE ADJ DEFINITION)) SELECT$3).CLM.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2007/05/25 09:32
L17	13	((EXTRACT$3 OR RETRIEV$3) DOCUMENT((DTD) OR (DOCUMENT ADJ TYPE ADJ DEFINITION)) SELECT$3).CLM.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2007/05/25 09:35
L18	0	((EXTRACT$3 OR RETRIEV$3) PARS$3 ((DTD) OR (DOCUMENT ADJ TYPE ADJ DEFINITION)) SELECT$3).CLM.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2007/05/25 09:33
L19	9	((CONVER$6 OR TRANSFORM$3) DOCUMENT((DTD) OR (DOCUMENT ADJ TYPE ADJ DEFINITION)) SELECT$3).CLM.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2007/05/25 09:37
L20	9	((CORRECT$3 OR FIX$3 OR EDIT$3) DOCUMENT((DTD) OR (DOCUMENT ADJ TYPE ADJ DEFINITION)) SELECT$3).CLM.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2007/05/25 09:38
L21	0	((CONVER$6 OR TRANSFORM$3) DOCUMENT((DTD) OR (DOCUMENT ADJ TYPE ADJ DEFINITION)) SELECT$3 ((WELL ADJ FORMED) OR MALFORMED)).CLM.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2007/05/25 09:38

EAST Search History

L22	0	(fix$3 or correct$3) BROKEN (LINK OR HYPERLINK) (DOCUMENT ADJ TYPE ADJ DEFINITION)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2007/05/25 09:43

	1	Document ID	Issue Date	Title	Current OR	Inventor	3	4	5
1		US 7152205 B2	20061219	System for multimedia document and file processing and format conversion	715/523	Day; Young Francis et al.			
2		US 7146564 B2	20061205	Extensible stylesheet designs using meta-tag and/or associated meta-tag information	715/513	Kim; Hong J. et al.			
3		US 7089238 B1	20060808	Method and apparatus for incremental computation of the accuracy of a categorization-by-example system	707/5	Davis; Mark W. et al.			
4		US 7080083 B2	20060718	Extensible stylesheet designs in visual graphic environments	707/100	Kim; Hong J. et al.			

	1	Document ID	Issue Date	Title	Current OR	Inventor	3	4	5
5		US 7028252 B1	20060411	System and method for construction, storage, and transport of presentation-independent multi-media content	715/500.1	Baru; Chaitanya et al.			
6		US 6941307 B2	20050906	Arrangement and a method relating to session management in a portal structure	707/10	Papanikolaou; Thomas et al.			
7		US 6938079 B1	20050830	System and method for automatically configuring a client device	709/222	Anderson; Mark et al.			
8		US 6934740 B1	20050823	Method and apparatus for sharing common data objects among multiple applications in a client device	709/213	Lawande; Sachin et al.			

	1	Document ID	Issue Date	Title	Current OR	Inventor	3	4	5
9		US 6928487 B2	20050809	Computer system, method, and business method for automating business-to-business communications	709/246	Eggebraaten; Thomas John et al.			
10		US 6882995 B2	20050419	Automatic query and transformative process	707/3	Nasr; Roger I. et al.			
11		US 6882892 B2	20050419	System and method for specifying elements in a packaging process	700/97	Farrah; Timothy Francis et al.			
12		US 6789252 B1	20040907	Building business objects and business software applications using dynamic object definitions of ingredient ial objects	717/100	Burke; Miles D. et al.			
13		US 6606620 B1	20030812	Method and system for classifying semi-structured documents	707/3	Sundaresan; Neelakantan et al.			

	1	Document ID	Issue Date	Title	Current OR	Inventor	3	4	5
14		US 6584459 B1	20030624	Database extender for storing, querying, and retrieving structured documents	707/3	Chang; Daniel T. et al.			
15		US 6519597 B1	20030211	Method and apparatus for indexing structured documents with rich data types	707/10	Cheng; Josephine M. et al.			
16		US 6438540 B2	20020820	Automatic query and transformative process	707/3	Nasr; Roger I. et al.			
17		US 6421656 B1	20020716	Method and apparatus for creating structure indexes for a data base extender	707/2	Cheng; Josephine M. et al.			
18		US 6366934 B1	20020402	Method and apparatus for querying structured documents using a database extender	707/513	Cheng; Josephine M. et al.			
19		US 6263332 B1	20010717	System and method for query processing of structured documents	707/5	Nasr; Roger I. et al.			

	1	Document ID	Issue Date	Title	Current OR	Inventor	3	4	5
20		US 6083276 A	20000704	Creating and configuring component-based applications using a text-based descriptive attribute grammar	717/1	Davidson; Harold R. et al.			

	1	Document ID	Issue Date	Title	Current OR	Inventor	3	4	5
1		US 20070112675 A1	20070517	Goods and Services Locator Language for Uniform Resource Identifier Components	705/50	Flinn; Brenda Jo			
2		US 20070079235 A1	20070405	DYNAMIC CREATION OF AN APPLICATION'S XML DOCUMENT TYPE DEFINITION (DTD)	715/513	Bender; David Michael et al.			
21		US 7194402 B2	20070320	Method and system for converting files to a specified markup language	704/3	Poplawski; Laura J.			
22		US 7143343 B2	20061128	Dynamic creation of an application's XML document type definition (DTD)	715/513	Bender; David Michael et al.			

	1	Document ID	Issue Date	Title	Current OR	Inventor	3	4	5
1		US 20060190575 A1	20060824	Method and apparatus for provisioning network devices using instructions in extensible markup language	709/222	Harvey; Andrew et al.			
2		US 20060015489 A1	20060119	Digital asset data type definitions	707/3	Probst; Bruce E. et al.			
3		US 20030140034 A1	20030724	Digital asset data type definitions	707/3	Probst, Bruce E. et al.			
4		US 20030106025 A1	20030605	Method and system for providing XML-based web pages for non-pc information terminals	715/523	Cho, Soo Sun et al.			
5		US 20020152244 A1	20021017	Method and apparatus to dynamically create a customized user interface based on a document type definition	715/530	Dean, Sara Elo et al.			

	1	Document ID	Issue Date	Title	Current OR	Inventor	3	4	5
6		US 20020026461 A1	20020228	System and method for creating a source document and presenting the source document to a user in a target format	715/523	Kutay, Ali et al.			
7		US 20010018696 A1	20010830	Method and system for generating a display rule for a structured document, storage medium for storing a program therefor, method and system for changing a structured document and its document type definition, and storage medium for storing a program therefor	707/513	Hori, Masahiro et al.			

	1	Document ID	Issue Date	Title	Current OR	Inventor	3	4	5
8		US 7209917 B2	20070424	Digital asset data type definitions	707/3	Probst; Bruce E. et al.			
9		US 7200809 B1	20070403	Multi-device support for mobile applications using XML	715/517	Paul; Jyotirmoy et al.			
10		US 7200597 B1	20070403	Graphic search initiation	707/10	Grizzard; Michael R.			
11		US 7171685 B2	20070130	Standard format specification for automatically configuring IP security tunnels	726/14	Batra; Gaurav et al.			
12		US 6950984 B2	20050927	Method, system for, and program product for generating a display rule for a structured document, and for changing a structured document and its document type definition	715/513	Hori; Masahiro et al.			

	1	Document ID	Issue Date	Title	Current OR	Inventor	3	4	5
13		US 6611843 B1	20030826	Specification of sub-elements and attributes in an XML sub-tree and method for extracting data values therefrom	707/102	Jacobs; Ronald Michael			

	1	Document ID	Issue Date	Title	Current OR	Inventor	3	4	5
1		US 20030188036 A1	20031002	Methods and systems for program migration	719/310	Chen, Luojia et al.			
2		US 20020147747 A1	20021010	System for converting data to a markup language	715/513	Zaharkin, Michael S.			
3		US 20020100027 A1	20020725	Method of externalizing relational and ASN.1-formatted data into XML format	717/137	Binding, Carl et al.			
4		US 20020026461 A1	20020228	System and method for creating a source document and presenting the source document to a user in a target format	715/523	Kutay, Ali et al.			
5		US 7209898 B2	20070424	XML instrumentation interface for tree-based monitoring architecture	705/51	Pfeiffer; Stephen et al.			
6		US 7200809 B1	20070403	Multi-device support for mobile applicatio	715/517	Paul; Jyotirmoy et al.			

				ns using XML					

	1	Document ID	Issue Date	Title	Current OR	Inventor	3	4	5
7		US 7107522 B1	20060912	System and method for creating extensible content	715/513	Morgan; Kelly C. et al.			
8		US 6941306 B2	20050906	Method and system for accessing data by using SOAP-XML	707/10	Kim; Hyoung Sun			
9	X	US 2002000 2566 A1	20020103	TRANSFROMATION OF MARKED UP DOCUMENTS USING A BASE ARCHITECTURE	707/513	GAJRAJ, COLIN			

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Relevance scale

1 aTool: creating validated XML documents on the fly using MS word

Oliver Meyer
October 2002 **Proceedings of the 20th annual international conference on Computer documentation SIGDOC '02**
Publisher: ACM Press
Full text available: pdf(239.02 KB) Additional Information: full citation, abstract, references, index terms

This paper describes aTool, an extension to Microsoft's Word to create XML documents. aTool has been developed in a joint project of the publisher Springer Verlag, Technical University of Munich (TUM), and Technical University of Aachen (RWTH). It has been developed to provide Springer Verlag with uniform XML documents from its authors and has become a generic XML creation tool that can be adapted to different document structures.For an author, aTool derives XML structures from MS Word editing c ...

Keywords: A-Posteriori Integration, DOM, Microsoft Office, Microsoft Word, Microsoft Word Add-In, XML, character formatting

2 Querying structured documents with hypertext links using OODBMS

V. Christophides, A. Rizk
September 1994 **Proceedings of the 1994 ACM European conference on Hypermedia technology ECHT '94**
Publisher: ACM Press
Full text available: pdf(1.32 MB) Additional Information: full citation, abstract, references, citings, index terms

Hierarchical logical structure and hypertext links are complementary and can be combined to build more powerful document management systems. Previous work exploits this complementarity for building better document processors, browsers and editing tools, but not for building sophisticated querying mechanisms. Querying in hypertext has been a requirement since [19] and has already been elaborated in many hypertext systems, but has not yet been used for hypertext systems superimposed on an und ...

Keywords: hypertexts, information retrieval, object oriented databases, path expressions, query languages, structured documents

3 Document reuse and semantics: Towards a semantics for XML markup

Allen Renear, David Dubin, C. M. Sperberg-McQueen
November 2002 **Proceedings of the 2002 ACM symposium on Document engineering DocEng '02**
Publisher: ACM Press

Full text available: pdf(72.89 KB) Additional Information: full citation, abstract, references, citings, index terms

Although XML Document Type Definitions provide a mechanism for specifying, in machine-readable form, the syntax of an XML markup language, there is no comparable mechanism for specifying the *semantics* of an XML vocabulary. That is, there is no way to characterize the meaning of XML markup so that the facts and relationships represented by the occurrence of XML constructs can be explicitly, comprehensively, and mechanically identified. This has serious practical and theoretical consequence ...

Keywords: SGML, XML, knowledge representation, markup, semantics

4 Developing and empirically evaluating robust explanation generators: the KNIGHT experiments

James C. Lester, Bruce W. Porter
March 1997 **Computational Linguistics**, Volume 23 Issue 1
Publisher: MIT Press
Full text available: pdf(2.64 MB) Additional Information: full citation, abstract, references, citings
Publisher Site

To explain complex phenomena, an explanation system must be able to select information from a formal representation of domain knowledge, organize the selected information into multisentential discourse plans, and realize the discourse plans in text. Although recent years have witnessed significant progress in the development of sophisticated computational mechanisms for explanation, empirical results have been limited. This paper reports on a seven-year effort to empirically study explanation ge ...

5 Key management and key exchange: A temporal key management scheme for secure broadcasting of XML documents

Elisa Bertino, Barbara Carminati, Elena Ferrari
November 2002 **Proceedings of the 9th ACM conference on Computer and communications security CCS '02**
Publisher: ACM Press
Full text available: pdf(242.89 KB) Additional Information: full citation, abstract, references, citings, index terms

Secure broadcasting of web documents is becoming a crucial need for many web-based applications. Under the broadcast document dissemination strategy a web document source periodically broad-casts (portions of) its documents to a possibly large community of subjects, without the need of explicit subject requests. By secure broadcasting we mean that the delivery of information to sub-jects must obey the access control policies of the document source. Since different subjects may have the right to ...

Keywords: XML, secure broadcasting, temporal key management

6 The "HyTime ": hypermedia/time-based document structuring language

Steven R. Newcomb, Neill A. Kipp, Victoria T. Newcomb
November 1991 **Communications of the ACM**, Volume 34 Issue 11
Publisher: ACM Press
Full text available: pdf(12.96 MB) Additional Information: full citation, references, citings, index terms

7 Legal knowledge bases 2: legislation: Automatic semantics extraction in law documents

C. Biagioli, E. Francesconi, A. Passerini, S. Montemagni, C. Soria
June 2005 **Proceedings of the 10th international conference on Artificial intelligence and law ICAIL '05**

Publisher: ACM Press
Full text available: pdf(491.40 KB) Additional Information: full citation, abstract, references

Normative texts can be viewed as composed by formal partitions (articles, paragraphs, etc.) or by semantic units containing fragments of a regulation (provisions). Provisions can be described according to a metadata scheme which consists of provision types and their arguments. This semantic annotation of a normative text can make the retrieval of norms easier. The detection and description of the provisions according to the established metadata scheme is an analytic intellectual activity aiming ...

8 Semantics of paragraphs
Wlodek Zadrozny, Karen Jensen
June 1991 **Computational Linguistics**, Volume 17 Issue 2
Publisher: MIT Press
Full text available: pdf(2.80 MB) Additional Information: full citation, abstract, references, citings
Publisher Site

We present a computational theory of the paragraph. Within it we formally define coherence, give semantics to the adversative conjunction "but" and to the Gricean maxim of quantity, and present some new methods for anaphora resolution.The theory precisely characterizes the relationship between the content of the paragraph and background knowledge needed for its understanding. This is achieved by introducing a new type of logical theory consisting of an object level, corresponding to the content ...

9 Industrial and practical experience track paper session 1: Ranking definitions with supervised learning methods
Jun Xu, Yunbo Cao, Hang Li, Min Zhao
May 2005 **Special interest tracks and posters of the 14th international conference on World Wide Web WWW '05**
Publisher: ACM Press
Full text available: pdf(328.82 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper is concerned with the problem of definition search. Specifically, given a term, we are to retrieve definitional excerpts of the term and rank the extracted excerpts according to their likelihood of being good definitions. This is in contrast to the traditional approaches of either generating a single combined definition or simply outputting all retrieved definitions. Definition ranking is essential for the task. Methods for performing definition ranking are proposed in this paper, whi ...

Keywords: classification, ordinal regression, search of definitions, text mining, web mining, web search

10 Web engineering meets natural language processing: a vocal interface generation practice
Hendrik Macedo, Jacques Robin, Roberto Barros
December 2005 **Proceedings of the 11th Brazilian Symposium on Multimedia and the web WebMedia '05**
Publisher: ACM Press
Full text available: pdf(132.64 KB) Additional Information: full citation, abstract, references, index terms

Today's trend towards ever more compact devices such as PDAs and mobile phones demands a more pervasive access manner. This paper describes an innovative mediator service architecture based on up-to-date web engineering standards to enable voice-based access to Web applications by means of voice portals and VoiceXML technologies. The core of the architecture is a Natural Language Generator that implements a pipeline of transformation rules. We show how Natural Language Generation technology can ...

Keywords: mediator service architecture, natural language generator, spoken dialogue-driven web

11 XIRQL: An XML query language based on information retrieval concepts

Norbert Fuhr, Kai Großjohann
April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2
Publisher: ACM Press

Full text available: pdf(281.91 KB) Additional Information: full citation, abstract, references, citings, index terms

XIRQL ("circle") is an XML query language that incorporates imprecision and vagueness for both structural and content-oriented query conditions. The corresponding uncertainty is handled by a consistent probabilistic model. The core features of XIRQL are (1) document ranking based on index term weighting, (2) specificity-oriented search for retrieving the most relevant parts of documents, (3) datatypes with vague predicates for dealing with specific types of content and (4) structural vagueness f ...

Keywords: Path algebra, XML, XQuery, probabilistic retrieval, ranked retrieval, vague predicates

12 XML processing: Frontiers of tractability for typechecking simple XML transformations

Wim Martens, Frank Neven
June 2004 **Proceedings of the twenty-third ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems PODS '04**
Publisher: ACM Press
Full text available: pdf(229.46 KB) Additional Information: full citation, abstract, references, citings

Typechecking consists of statically verifying whether the output of an XML transformation is always conform to an output type for documents satisfying a given input type. We focus on complete algorithms which always produce the correct answer. We consider top-down XML transformations incorporating XPath expressions and abstract document types by grammars and tree automata. By restricting schema languages and transformations, we identify several practical settings for which typechecking is in pol ...

13 Design: Proving the validity and accessibility of dynamic web-pages

R. G. Stone, J. Dhiensa
May 2004 **Proceedings of the 2004 international cross-disciplinary workshop on Web accessibility (W4A) W4A '04**
Publisher: ACM Press

Full text available: pdf(58.16 KB) Additional Information: full citation, abstract, references, citings, index terms

If a static web-page is checked for accessibility and passes then all is well. However checking the accessibility of the output from a dynamic (scripted) web-page is like testing a program to find errors. However many times a test succeeds it is always possible that the program will produce bad output next time. What is needed is something closer to a proof of correctness. This paper describes a first attempt to provide a proof of validity for dynamic web-pages which can be extended to a proof o ...

Keywords: accessibility, dynamic Web-pages, validity

14 Integrating document and data retrieval based on XML

Jan-Marco Bremer, Michael Gertz
January 2006 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 15 Issue 1
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(841.10 KB) Additional Information: full citation, abstract

For querying structured and semistructured data, data retrieval and document retrieval are two valuable and complementary techniques that have not yet been fully integrated.

In this paper, we introduce integrated information retrieval (IIR), an XML-based retrieval approach that closes this gap. We introduce the syntax and semantics of an extension of the XQuery language called XQuery/IR. The extended language realizes IIR and thereby allows users to formulate new kinds of queries by nesting rank ...

Keywords: Data retrieval, Document retrieval, Index structures, Integrated information retrievals, Structural join, XML

15 A new tool for SGML with applications for the World Wide Web

R. W. Matzen, G. E. Hedrick

February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing SAC '98**

Publisher: ACM Press

Full text available: pdf(848.66 KB) Additional Information: full citation, references, citings, index terms

Keywords: DTD, HTML, SGML, WWW, exceptions

16 Storing HyTime documents in an object-oriented databases

Klemens Böhm, Karl Aberer

November 1994 **Proceedings of the third international conference on Information and knowledge management CIKM '94**

Publisher: ACM Press

Full text available: pdf(1.03 MB) Additional Information: full citation, abstract, references, citings, index terms

An open hypermedia-document storage system has to meet requirements that are not satisfied by existing systems: it has to support non-generic hypermedia document types, i.e. document types enriched with application-specific semantics. It has to provide hypermedia-document access methods. Finally, it has to allow the exchange of hypermedia documents with other systems. On a technical level, an object-oriented database-management system, on a logical level, a well established ISO standard, na ...

17 eXtended cumulated gain measures for the evaluation of content-oriented XML retrieval

Gabriella Kazai, Mounia Lalmas

October 2006 **ACM Transactions on Information Systems (TOIS)**, Volume 24 Issue 4

Publisher: ACM Press

Full text available: pdf(3.25 MB) Additional Information: full citation, abstract, references, index terms

We propose and evaluate a family of measures, the eXtended Cumulated Gain (XCG) measures, for the evaluation of content-oriented XML retrieval approaches. Our aim is to provide an evaluation framework that allows the consideration of dependency among XML document components. In particular, two aspects of dependency are considered: (1) near-misses, which are document components that are structurally related to relevant components, such as a neighboring paragraph or container section, and (2) over ...

Keywords: INEX, XML retrieval, cumulated gain, dependency, evaluation, metrics, near-miss, overlap

18 Search engineering 2: Texquery: a full-text search extension to xquery

S. Amer-Yahia, C. Botev, J. Shanmugasundaram

May 2004 **Proceedings of the 13th international conference on World Wide Web WWW '04**

Publisher: ACM Press

Full text available: pdf(117.50 KB) Additional Information: full citation, abstract, references, citings, index

terms

One of the key benefits of XML is its ability to represent a mix of structured and unstructured (text) data. Although current XML query languages such as XPath and XQuery can express rich queries over structured data, they can only express very rudimentary queries over text data. We thus propose TeXQuery, which is a powerful full-text search extension to XQuery. TeXQuery provides a rich set of fully composable full-text search primitives,such as Boolean connectives, phrase matching, proximity di ...

Keywords: full-text search, xquery

19 Preparing heterogeneous XML for full-text search

Miro Lehtonen
October 2006 **ACM Transactions on Information Systems (TOIS)**, Volume 24 Issue 4
Publisher: ACM Press
Full text available: pdf(228.25 KB) Additional Information: full citation, abstract, references, index terms

XML retrieval is facing new challenges when applied to heterogeneous XML documents, where next to nothing about the document structure can be taken for granted. We have developed solutions where some of the heterogeneity issues are addressed. Our fragment selection algorithm selectively divides a heterogeneous document collection into equi-sized fragments with full-text content. If the content is considered too data-oriented, it is not accepted. The algorithm needs no information about element n ...

Keywords: XML retrieval, heterogeneous documents, indexing

20 Expert assistance for manipulating of SGML document type definitions

W. Timothy Polk, Lawrence E. Bassham
January 2000 **Proceedings of the ACM conference on Document processing systems DOCPROCS '88**
Publisher: ACM Press
Full text available: pdf(479.15 KB) Additional Information: full citation, references, index terms

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1 aTool: creating validated XML documents on the fly using MS word

Oliver Meyer

October 2002 **Proceedings of the 20th annual international conference on Computer documentation SIGDOC '02**

Publisher: ACM Press

Full text available: pdf(239.02 KB) Additional Information: full citation, abstract, references, index terms

This paper describes aTool, an extension to Microsoft's Word to create XML documents. aTool has been developed in a joint project of the publisher Springer Verlag, Technical University of Munich (TUM), and Technical University of Aachen (RWTH). It has been developed to provide Springer Verlag with uniform XML documents from its authors and has become a generic XML creation tool that can be adapted to different document structures.For an author, aTool derives XML structures from MS Word editing c ...

Keywords: A-Posteriori Integration, DOM, Microsoft Office, Microsoft Word, Microsoft Word Add-In, XML, character formatting

2 What makes the differences: benchmarking XML database implementations

Hongjun Lu, Jeffrey Xu Yu, Guoren Wang, Shihui Zheng, Haifeng Jiang, Ge Yu, Aoying Zhou

February 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 1

Publisher: ACM Press

Full text available: pdf(589.14 KB) Additional Information: full citation, abstract, references, index terms

XML is emerging as a major standard for representing data on the World Wide Web. Recently, many XML storage models have been proposed to manage XML data. In order to assess an XML database's abilities to deal with XML queries, several benchmarks have also been proposed, including XMark and XMach. However, no reported studies using those benchmarks were found that can provide users with insights on the impacts of a variety of storage models on XML query performance. In this article, we report our ...

Keywords: XML query processing, XML storage model, benchmark

3 Logical definability and query languages over ranked and unranked trees

Michael Benedikt, Leonid Libkin, Frank Neven

April 2007 **ACM Transactions on Computational Logic (TOCL)**, Volume 8 Issue 2

Publisher: ACM Press

Full text available: pdf(601.84 KB) Additional Information: full citation, abstract, references, index terms

We study relations on trees defined by first-order constraints over a vocabulary that

includes the *tree extension relation* $T \sqsubset T'$ (holding if and only if every branch of T extends to a branch of T'), unary node-tests, and a binary relation checking whether the domains of two trees are equal. We consider both ranked and unranked trees. These are trees with and without a restriction on the number of children of nodes. We adopt the model-theoretic appro ...

Keywords: Ranked trees, model theory, query languages, tree automata, unranked trees

4 Session I: Design patterns as higher-order datatype-generic programs

Jeremy Gibbons

September 2006 **Proceedings of the 2006 ACM SIGPLAN workshop on Generic programming WGP '06**

Publisher: ACM Press

Full text available: pdf(214.16 KB) Additional Information: full citation, abstract, references, index terms

Design patterns are reusable abstractions in object-oriented software. However, using current mainstream programming languages, these elements can only be expressed extra-linguistically: as prose, pictures, and prototypes. We believe that this is not inherent in the patterns themselves, but evidence of a lack of expressivity in the languages of today. We expect that, in the languages of the future, the code parts of design patterns will be expressible as reusable library components. Indeed, we c ...

Keywords: design patterns, folds, functional programming, generic programming, higher-order functions, unfolds

5 Proceedings of the SIGNUM conference on the programming environment for development of numerical software

March 1979 **ACM SIGNUM Newsletter**, Volume 14 Issue 1

Publisher: ACM Press

Full text available: pdf(5.02 MB) Additional Information: full citation

6 Dynamic labeling schemes for ordered XML based on type information

Damien K. Fisher, Franky Lam, William M. Shui, Raymond K. Wong

January 2006 **Proceedings of the 17th Australasian Database Conference - Volume 49 ADC '06**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(184.30 KB) Additional Information: full citation, abstract, references, index terms

With the increasing popularity of XML, there arises the need for managing and querying information in this form. Several query languages, such as XQuery, have been proposed which return their results in document order. However, most recent efforts focused on query optimization have either disregarded order or proposed static schemes in which updates are not handled efficiently. Some dynamic labelling schemes have been proposed but they do not consider type information that is usually available w ...

Keywords: XML, order maintenance

7 Query optimization in XML structured-document databases

Dunren Che, Karl Aberer, Tamer Özsu

September 2006 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 15 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(687.23 KB) Additional Information: full citation, abstract

While the information published in the form of XML-compliant documents keeps fast

mounting up, efficient and effective query processing and optimization for XML have now become more important than ever. This article reports our recent advances in XML structured-document query optimization. In this article, we elaborate on a novel approach and the techniques developed for XML query optimization. Our approach performs heuristic-based algebraic transformations on XPath queries, represented as PAT a ...

Keywords: Deterministic query optimization, Query transformation, XML database, XML query optimization, XML query processing

8 Articulating information needs in XML query languages

Jaap Kamps, Maarten Marx, Maarten de Rijke, Börkur Sigurbjörnsson
October 2006 **ACM Transactions on Information Systems (TOIS)**, Volume 24 Issue 4
Publisher: ACM Press
Full text available: pdf(318.47 KB) Additional Information: full citation, abstract, references, index terms

Document-centric XML is a mixture of text and structure. With the increased availability of document-centric XML documents comes a need for query facilities in which both structural constraints and constraints on the content of the documents can be expressed. How does the expressiveness of languages for querying XML documents help users to express their information needs? We address this question from both an experimental and a theoretical point of view. Our experimental analysis compares a stru ...

Keywords: Full-text XML querying, XML retrieval, XPath

9 TIPSTER architecture: TIPSTER text phase II architecture requirements

Architecture Committee
May 1996 **Proceedings of a workshop on held at Vienna, Virginia: May 6-8, 1996**
Publisher: Association for Computational Linguistics
Full text available: pdf(1.34 MB) Additional Information: full citation, abstract

The requirements herein are derived from several Government agencies. Some requirements may be traced to specific documents given below. Interviews with Government personnel were also a source. When possible, the source documents, shown as (n), indicate the basis for the TIPSTER requirement:0. Derived Requirement.1. BAA 93-36 and Scenarios2. Architecture Requirements (draft), Sarah Taylor, 13 March 19943. FBIS CONOPS (draft), MITRE, 28 February 19944. ADEPT CONOPS (working draft), MITRE, 4 Febru ...

10 Querying structured documents with hypertext links using OODBMS

V. Christophides, A. Rizk
September 1994 **Proceedings of the 1994 ACM European conference on Hypermedia technology ECHT '94**
Publisher: ACM Press
Full text available: pdf(1.32 MB) Additional Information: full citation, abstract, references, citings, index terms

Hierarchical logical structure and hypertext links are complementary and can be combined to build more powerful document management systems. Previous work exploits this complementarity for building better document processors, browsers and editing tools, but not for building sophisticated querying mechanisms. Querying in hypertext has been a requirement since [19] and has already been elaborated in many hypertext systems, but has not yet been used for hypertext systems superimposed on an und ...

Keywords: hypertexts, information retrieval, object oriented databases, path expressions, query languages, structured documents

11 biXid: a bidirectional transformation language for XML

Shinya Kawanaka, Haruo Hosoya
September 2006 **ACM SIGPLAN Notices , Proceedings of the eleventh ACM SIGPLAN international conference on Functional programming ICFP '06**, Volume 41 Issue 9
Publisher: ACM Press
Full text available: pdf(20.54 MB) Additional Information: full citation, abstract, references, index terms

Often, independent organizations define and advocate different XML formats for a similar purpose and, as a result, application programs need to mutually convert between such formats. Existng XML transformation languages, such as XSLT and XDuce, are unsatisfactory for this purpose since we would have to write, e.g., two programs for the forward and the backward transformations in case of two formats, incur high developing and maintenance costs.This paper proposes the *bidirectional* XML tran ...

Keywords: XML, tree automata

12 Document reuse and semantics: Towards a semantics for XML markup
Allen Renear, David Dubin, C. M. Sperberg-McQueen
November 2002 **Proceedings of the 2002 ACM symposium on Document engineering DocEng '02**
Publisher: ACM Press
Full text available: pdf(72.89 KB) Additional Information: full citation, abstract, references, citings, index terms

Although XML Document Type Definitions provide a mechanism for specifying, in machine-readable form, the syntax of an XML markup language, there is no comparable mechanism for specifying the *semantics* of an XML vocabulary. That is, there is no way to characterize the meaning of XML markup so that the facts and relationships represented by the occurrence of XML constructs can be explicitly, comprehensively, and mechanically identified. This has serious practical and theoretical consequence ...

Keywords: SGML, XML, knowledge representation, markup, semantics

13 Research sessions: Web, XML and IR: FleXPath: flexible structure and full-text querying for XML
Sihem Amer-Yahia, Laks V. S. Lakshmanan, Shashank Pandit
June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data SIGMOD '04**
Publisher: ACM Press
Full text available: pdf(437.86 KB) Additional Information: full citation, abstract, references, citings

Querying XML data is a well-explored topic with powerful database-style query languages such as XPath and XQuery set to become W3C standards. An equally compelling paradigm for querying XML documents is full-text search on textual content. In this paper, we study fundamental challenges that arise when we try to integrate these two querying paradigms.While keyword search is based on approximate matching, XPath has exact match semantics. We address this mismatch by considering queries on structure ...

14 Design and development of data-intensive web sites: The Araneus approach
Paolo Merialdo, Paolo Atzeni, Giansalvatore Mecca
February 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 1
Publisher: ACM Press
Full text available: pdf(2.18 MB) Additional Information: full citation, abstract, references, citings, index terms

Data-intensive Web sites are large sites based on a back-end database, with a fairly complex hypertext structure. The paper develops two main contributions: (a) a specific design methodology for data-intensive Web sites, composed of a set of steps and design transformations that lead from a conceptual specification of the domain of interest to the actual implementation of the site; (b) a tool called Homer, conceived to support the site

design and implementation process, by allowing the ...

Keywords: Databases, Internet, WWW, World Wide Web, development

15 Selected writings on computing: a personal perspective

Edsger W. Dijkstra
January 1982 Book

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(60.98 MB) Additional Information: full citation, abstract, references, cited by, index terms

Since the summer of 1973, when I became a Burroughs Research Fellow, my life has been very different from what it had been before. The daily routine changed: instead of going to the University each day, where I used to spend most of my time in the company of others, I now went there only one day a week and was most of the time that is, when not travelling!-- alone in my study. In my solitude, mail and the written word in general became more and more important. The circumstance that my employe ...

16 Compiler construction: an advanced course

F. L. Bauer, F. L. De Remer, M. Griffiths, U. Hill, J. J. Horning, C. H. A. Koster, W. M. McKeeman, P. C. Poole, W. M. Waite, G. Goos, J. Hartmanis
January 1974 Book

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(65.62 MB) Additional Information: full citation, abstract, references, cited by

The Advanced Course took place from March 4 to 15, 1974 and was organized by the Mathematical Institute of the Technical University of Munich and the Leibniz Computing Center of the Bavarian Academy of Sciences, in co-operation with the European Communities, sponsored by the Ministry for Research and Technology of the Federal Republic of Germany and by the European Research Office, London.

17 Querying & transforming XML: Visibly pushdown automata for streaming XML

Viraj Kumar, P. Madhusudan, Mahesh Viswanathan
May 2007 **Proceedings of the 16th international conference on World Wide Web WWW '07**

Publisher: ACM Press

Full text available: pdf(233.17 KB) Additional Information: full citation, abstract, references, index terms

We propose the study of visibly pushdown automata (VPA) for processing XML documents. VPAs are pushdown automata where the input determines the stack operation, and XML documents are naturally visibly pushdown with the VPA pushing onto the stack on open-tags and popping the stack on close-tags. In this paper we demonstrate the power and ease visibly pushdown automata give in the design of *streaming* algorithms for XML documents.

We study the problems of *type-checking* strea ...

Keywords: XML, pushdown automata, query, schema, streaming algorithms, typing

18 Alloy: a lightweight object modelling notation

Daniel Jackson
April 2002 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 11 Issue 2

Publisher: ACM Press

Full text available: pdf(346.87 KB) Additional Information: full citation, abstract, references, citings, index terms

Alloy is a little language for describing structural properties. It offers a declaration syntax compatible with graphical object models, and a set-based formula syntax powerful enough to express complex constraints and yet amenable to a fully automatic semantic analysis. Its meaning is given by translation to an even smaller (formally defined) kernel. This paper presents the language in its entirety, and explains its motivation, contributions and deficiencies.

Keywords: Object models, Z specification language, first-order logic

19 Document creation II: Techniques for authoring complex XML documents

Vincent Quint, Irône Vatton

October 2004 **Proceedings of the 2004 ACM symposium on Document engineering DocEng '04**

Publisher: ACM Press

Full text available: pdf(265.88 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper reviews the main innovations of XML and considers their impact on the editing techniques for structured documents. Namespaces open the way to compound documents; well-formedness brings more freedom in the editing task; CSS allows style to be associated easily with structured documents. In addition to these innovative features the wide deployment of XML introduces structured documents in many new applications including applications where text is not the dominant content type. In lan ...

Keywords: CSS, XML, authoring tools, compound documents, direct manipulation, structured editing, style languages

20 Developing and empirically evaluating robust explanation generators: the KNIGHT experiments

James C. Lester, Bruce W. Porter

March 1997 **Computational Linguistics**, Volume 23 Issue 1

Publisher: MIT Press

Full text available: pdf(2.64 MB) Additional Information: full citation, abstract, references, citings

Publisher Site

To explain complex phenomena, an explanation system must be able to select information from a formal representation of domain knowledge, organize the selected information into multisentential discourse plans, and realize the discourse plans in text. Although recent years have witnessed significant progress in the development of sophisticated computational mechanisms for explanation, empirical results have been limited. This paper reports on a seven-year effort to empirically study explanation ge ...

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